

Emissions of Greenhouse Gases in the United States 2004

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Table 22. U.S. Methane Emissions from Enteric Fermentation in Domesticated Animals, 1990 and 1996-2004

Animal Type	1990	1996	1997	1998	1999	2000	2001	2002	2003	P2004
Million Metric Tons Carbon Dioxide Equivalent										
Cattle.....	113.6	116.4	113.5	111.5	111.8	110.9	109.7	110.2	110.8	109.9
Swine.....	1.6	1.7	1.8	1.9	1.9	1.8	1.8	1.9	1.9	1.9
Sheep.....	2.1	1.6	1.5	1.4	1.3	1.3	1.3	1.2	1.2	1.1
Goats.....	0.2	0.2	0.2	0.2	0.2	0.1	0.2	0.1	0.1	0.1
Horses.....	2.1	2.1	2.1	2.2	2.1	2.2	2.2	2.2	2.2	2.2
Total	119.6	122.0	119.1	117.2	117.3	116.3	115.1	115.7	116.2	115.2
Million Metric Tons Methane										
Cattle.....	4.94	5.06	4.94	4.85	4.86	4.82	4.77	4.79	4.82	4.78
Swine.....	0.07	0.07	0.08	0.08	0.08	0.08	0.08	0.08	0.08	0.08
Sheep.....	0.09	0.07	0.06	0.06	0.06	0.06	0.06	0.05	0.05	0.05
Goats.....	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Horses.....	0.09	0.09	0.09	0.09	0.09	0.09	0.10	0.10	0.10	0.10
Total	5.20	5.30	5.18	5.10	5.10	5.06	5.01	5.03	5.05	5.01

P = preliminary data.

Notes: Data in this table are revised from the data contained in the previous EIA report, *Emissions of Greenhouse Gases in the United States 2003*, DOE/EIA-0573(2003) (Washington, DC, December 2004). Totals may not equal sum of components due to independent rounding.

Sources: Cattle, sheep, and pig population data provided by the U.S. Department of Agriculture, National Agricultural Statistics Service, Livestock, Dairy and Poultry Service. Goat and horse population figures extrapolated from U.S. Department of Commerce, Bureau of the Census, *Census of Agriculture*, 1982, 1987, 1992, and 1997. Emissions calculations based on U.S. Environmental Protection Agency, *Inventory of U.S. Greenhouse Gas Emissions and Sinks 1990-2003*, EPA-430-R-05-003 (Washington, DC, April 2005), web site <http://yosemite.epa.gov/oar/globalwarming.nsf/content/ResourceCenterPublicationsGHGEmissionsUSEmissionsInventory2005.html>; and P.J. Crutzen, I. Aselmann, and W.S. Seiler, "Methane Production by Domestic Animals, Wild Ruminants, Other Herbivorous Fauna, and Humans," *Tellus*, Vol. 38B (1986), pp. 271-284.